

CLAIMS

sub B1 1. Use of an essentially impermeable transfer belt
5 (16) for a soft tissue paper machine for conducting a
soft tissue web (1) through a shoe press nip in the press
section of the paper machine, and from the shoe press nip
to a Yankee cylinder (5) in the dryer section of the
10 paper machine in a closed draw, which Yankee cylinder
forms, together with a transfer means (17), a transfer
nip transferring the soft tissue web from the transfer
belt to the Yankee cylinder, the transfer belt comprising
a carrier and an elastically compressible polymer layer
15 on its side facing the paper web, the polymer layer hav-
ing a hardness between 50 and 97 Shore A and having a
web-contacting surface which has a pressure-sensitive
resettable degree of roughness, the web-contacting sur-
face having a degree of roughness in a non-compressed
state of $R_z = 2-80 \mu\text{m}$, measured according to ISO 4287,
20 Part I, and a lower degree of roughness of $R_z = 0-20 \mu\text{m}$
when the polymer layer is compressed by a linear load of
20-220 kN/m applied to the essentially impermeable trans-
fer belt as measured in a non-extended press nip.

2. Use as claimed in claim 1, c h a r a c t e r -
25 i s e d in that the essentially impermeable trans-
fer belt (16) has an air permeability of less than
 $6 \text{ m}^3/\text{m}^2/\text{min}$, measured according to the method stated in
"Standard Test Method for Air Permeability of Textile
Fabrics, ASTM D 737-75, American Society of Testing and
30 Materials".

a 3. Use as claimed in claim 1 ~~or 2~~, c h a r a c -
t e r i s e d in that the polymer layer comprises a
polymer composition such as acryl polymer resin, poly-
urethane polymer resin and polyurethane/polycarbonate
35 polymer resin composition.

a 4. Use as claimed in claim 1 ~~any one of claims 1-3~~,
c h a r a c t e r i s e d in that the polymer layer com-

a

claim 1

a

claim /

a

claim)

a

claim 7

[illegible]